

AMENDMENTS TO THE CLAIMS

1 1. (Currently amended) A method for obtaining a current value of a Management Information
2 base (MIB) variable stored in a managed network device in a network, the method
3 comprising the steps of:
4 receiving a connection of a Web browser to ~~the~~ a first managed network device;
5 receiving at the first managed network device an HTTP request message from the
6 browser to obtain the current value of the MIB variable from the first
7 managed network device to which the MIB variable value pertains;
8 receiving the current value of the MIB variable from the MIB of the first managed
9 network device to which the MIB variable value pertains; and
10 communicating the current value of the MIB variable from the first managed network
11 device to which the MIB variable value pertains to the browser using an
12 HTTP reply message.

1 2. (Currently amended) The method of claim 1, further comprising the steps of:
2 creating and storing a MIB object tree in a memory of the first managed network
3 device;
4 creating an electronic document that contains a representation of one or more MIB
5 variables of the MIB object tree;
6 communicating the electronic document to the Web browser.

1 3. (Currently amended) The method of claim 1, wherein the step of receiving the current
2 value of the MIB variable from the MIB of the first managed network device includes
3 the steps of creating and storing a MIB object tree in a memory of the first managed
4 network device; obtaining the MIB variable from the MIB object tree in the memory
5 of the first managed network device.

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1 4. (Currently amended) The method of claim 1, further comprising the steps of:
2 creating and storing a MIB object tree in a memory of the first managed network
3 device;
4 creating an electronic document that contains a representation of one or more MIB
5 variables of the MIB object tree;
6 receiving a user selection of one of the MIB variables based on the electronic
7 document;
8 wherein the step of receiving the current value of the MIB variable from the MIB of
9 the first managed network device includes the step of obtaining the MIB
10 variable that is identified in the user selection from the MIB object tree in the
11 memory of the first managed network device.

1 5. (Currently amended) The method of claim 1, further comprising the steps of:
2 receiving the HTTP request message to obtain the current value of the MIB variable
3 at an HTTP-SNMP interface;
4 creating an SNMP query that requests a current value of the MIB variable based on
5 the HTTP request message; and
6 communicating the SNMP query to an SNMP daemon of the first managed network
7 device.

1 6. (Currently amended) The method of claim 1, further comprising the steps of:
2 communicating the current value of the MIB variable to the HTTP-SNMP interface;
3 creating and storing an HTML page that contains the current value of the MIB
4 variable; and
5 sending the HTML page to an HTTP daemon of the first managed network device.

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1 7. (Original) The method of claim 1, further comprising the step of creating and storing
2 an executable software element in association with the Web browser, wherein the
3 executable software element is configured for packaging an SNMP query into the
4 request from the Web browser.

1 8. (Original) The method of claim 1, wherein the step of receiving a request from the
2 Web browser to obtain the current value of the MIB variable includes the step of
3 unpackaging an SNMP query that is packaged in the request from the Web browser to
4 identify the MIB variable

1 9. (Currently amended) The method of claim 8, further comprising the step of sending
2 the SNMP query to an SNMP daemon of the first managed network device.

1 10. (Original) The method of claim 8, wherein the step of returning the current value of
2 the MIB variable to the Web browser includes the step of repackaging the current
3 value of the MIB variable into an HTTP reply message.

1 11. (Currently amended) A network device, comprising:
2 a processor;
3 a Management Information Base (MIB) logically accessible by the processor and
4 comprising one or more stored values of MIB variables;
5 a Simple Network Management Protocol (SNMP) daemon executed by the processor;
6 a Hypertext Transfer Protocol (HTTP) daemon executed by the processor;
7 stored instructions for obtaining a current value of a Management Information base
8 (MIB) variable stored in a managed network device which, when executed by
9 the processor, cause the processor to carry out the steps of:

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10 receiving a connection of a Web browser to ~~the~~ a first managed network
11 device;
12 receiving at the first managed network device an HTTP request message from
13 the browser to obtain the current value of the MIB variable from the
14 first managed network device to which the MIB variable value
15 pertains;
16 receiving the current value of the MIB variable from the MIB of the first
17 managed network device to which the MIB variable value pertains;
18 and
19 communicating the current value of the MIB variable from the first managed
20 network device to which the MIB variable value pertains to the
21 browser using an HTTP reply message.

1 12. (Currently amended) The network device of claim 11, wherein the instructions further
2 cause the processor to carry out the steps of:

3 creating and storing a MIB object tree in a memory of the first managed network
4 device;
5 creating an electronic document that contains a representation of one or more MIB
6 variables of the MIB object tree;
7 communicating the electronic document to the Web browser.

1 13. (Currently amended) The network device of claim 11, wherein the step of receiving
2 the current value of the MIB variable from the MIB of the first managed network
3 device includes the steps of creating and storing a MIB object tree in a memory of the
4 first managed network device; obtaining the MIB variable from the MIB object tree
5 in the memory of the first managed network device.

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1 14. (Currently amended) The network device of claim 11, wherein the instructions further
2 cause the processor to carry out the steps of:
3 creating and storing a MIB object tree in a memory of the first managed network
4 device;
5 creating an electronic document that contains a representation of one or more MIB
6 variables of the MIB object tree;
7 receiving a user selection of one of the MIB variables based on the electronic
8 document;
9 wherein the step of receiving the current value of the MIB variable from the MIB of
10 the first managed network device includes the step of obtaining the MIB
11 variable that is identified in the user selection from the MIB object tree in the
12 memory of the first managed network device.

1 15. (Currently amended) The network device of claim 11, further comprising an HTTP-
2 SNMP interface which, when executed by the processor, causes the processor to carry
3 out the steps of:
4 receiving the HTTP request message to obtain the current value of the MIB variable
5 at an HTTP-SNMP interface;
6 creating an SNMP query that requests a current value of the MIB variable based on
7 the HTTP request message; and
8 communicating the SNMP query to an SNMP daemon of the first managed network
9 device.

10 16. (Previously presented) The network device of claim 11, further comprising the steps
11 of:
12 communicating the current value of the MIB variable to the HTTP-SNMP interface;

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13 creating and storing an HTML page that contains the current value of the MIB
14 variable; and
15 sending the HTML page to the HTTP daemon.

1 17. (Currently amended) A computer-readable medium carrying one or more sequences of
2 one or more instructions for obtaining a current value of a Management Information
3 base (MIB) variable stored in a managed network device in a network, the one or
4 more sequences of one or more instructions including instructions which, when
5 executed by one or more processors, cause the one or more processors to perform the
6 steps of:

7 receiving a connection of a Web browser to ~~the~~ a first managed network
8 device;
9 receiving at the first managed network device an HTTP request message from
10 the browser to obtain the current value of the MIB variable from the
11 first managed network device to which the MIB variable value
12 pertains;
13 receiving the current value of the MIB variable from the MIB of the first
14 managed network device to which the MIB variable value pertains;
15 and
16 communicating the current value of the MIB variable from the first managed
17 network device to which the MIB variable value pertains to the
18 browser using an HTTP reply message.

1 18. (Original) The computer-readable medium as recited in claim 17, wherein the
2 instructions further cause the processor to carry out the steps of:
3 creating and storing a MIB object tree;

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4 creating an electronic document that contains a representation of one or more MIB
5 variables of the MIB object tree;
6 communicating the electronic document to the Web browser.

1 19. (Currently amended) The computer-readable medium as recited in claim 17, wherein
2 receiving the current value of the MIB variable from the MIB of the first managed
3 network device includes the steps of creating and storing a MIB object tree in a
4 memory of the first managed network device; obtaining the MIB variable from the
5 MIB object tree in the memory of the first managed network device.

1 20. (Currently amended) The computer-readable medium as recited in claim 17, wherein
2 the instructions further cause the processor to carry out the steps of:
3 creating and storing a MIB object tree in a memory of the first managed network
4 device;
5 creating an electronic document that contains a representation of one or more MIB
6 variables of the MIB object tree;
7 receiving a user selection of one of the MIB variables based on the electronic
8 document;
9 wherein receiving the current value of the MIB variable from the MIB of the first
10 managed network device includes the step of obtaining the MIB variable that
11 is identified in the user selection from the MIB object tree in the memory of
12 the first managed network device.

1 21. (Currently amended) The computer-readable medium as recited in claim 17, wherein
2 the instructions further cause the processor to carry out the steps of:
3 receiving the HTTP request message to obtain the current value of the MIB variable
4 at an HTTP-SNMP interface;

5 creating an SNMP query that requests a current value of the MIB variable based on
6 the HTTP request message; and
7 communicating the SNMP query to an SNMP daemon of the first managed network
8 device.

1 22. (Currently amended) The computer-readable medium as recited in claim 17, wherein
2 the instructions further cause the processor to carry out the steps of:
3 communicating the current value of the MIB variable to the HTTP-SNMP interface;
4 creating and storing an HTML page that contains the current value of the MIB
5 variable; and
6 sending the HTML page to an HTTP daemon of the first managed network device.

1 23. (Currently amended) An HTTP browser program including a plug-in executable software
2 element configured for obtaining a current value of a Management Information Base
3 (MIB) variable stored in a managed network device in a network and which, when
4 executed by a processor that executes the browser, causes the processor to carry out
5 the steps of:
6 ~~receiving a connection of a Web~~ connecting the browser to the network device;
7 translating an SNMP query to a HTTP request message;
8 ~~receiving at the managed network device~~ communicating an the HTTP request
9 message from the browser to the network device to obtain the current value of
10 the MIB variable from the managed network device to which the MIB
11 variable value pertains;
12 receiving, in an HTTP reply message, the current value of the MIB variable from the
13 MIB of the network device to which the MIB variable value pertains; and

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14 ~~communicating the current value of the MIB variable from the network device to~~
15 ~~which the MIB variable value pertains to the browser using an HTTP reply~~
16 ~~message~~
17 displaying the current value of the MIB variable using the browser.

1 24. (Currently amended) An applet executable in a browser program and configured for
2 obtaining a current value of a Management Information Base (MIB) variable stored in
3 a managed network device in a network and which, when executed by the browser,
4 causes the browser to carry out the steps of:
5 ~~receiving a connection of a Web~~ connecting the browser to the network device;
6 translating an SNMP query to a HTTP request message;
7 ~~receiving at the managed network device~~ communicating an the HTTP request
8 message from the browser to the network device to obtain the current value of
9 the MIB variable from the managed network device to which the MIB
10 variable value pertains;
11 receiving, in an HTTP reply message, the current value of the MIB variable from the
12 MIB of the network device to which the MIB variable value pertains; and
13 ~~communicating the current value of the MIB variable from the network device to~~
14 ~~which the MIB variable value pertains to the browser using an HTTP reply~~
15 ~~message~~
16 displaying the current value of the MIB variable using the browser.

1 25. (Previously presented) The network device of claim 11, wherein the step of receiving
2 a request from the Web browser to obtain the current value of the MIB variable
3 includes the step of unpackaging an SNMP query that is packaged in the request from
4 the Web browser to identify the MIB variable.

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1 26. (Currently amended) The network device of claim 25, wherein the instructions further
2 cause the processor to carry out the step of sending the SNMP query to an SNMP
3 daemon of the first managed network device.

1 27. (Previously presented) The network device of claim 25, wherein the step of returning
2 the current value of the MIB variable to the Web browser includes the step of
3 repackaging the current value of the MIB variable into an HTTP reply message.

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1 28. (Previously presented) The computer-readable medium of claim 17, wherein the step
2 of receiving a request from the Web browser to obtain the current value of the MIB
3 variable includes the step of unpackaging an SNMP query that is packaged in the
4 request from the Web browser to identify the MIB variable.

1 29. (Currently amended) The computer-readable medium of claim 28, wherein the
2 instructions further cause the processor to carry out the step of sending the SNMP
3 query to an SNMP daemon of the first managed network device.

1 30. (Previously presented) The computer-readable medium of claim 28, wherein the step
2 of returning the current value of the MIB variable to the Web browser includes the
3 step of repackaging the current value of the MIB variable into an HTTP reply
4 message.

1 31. (Currently amended) A system for obtaining a current value of a Management
2 Information base (MIB) variable stored in a managed network device in a network,
3 the system comprising:
4 means for receiving a connection of a Web browser to the a first managed network
5 device;

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6 means for receiving at the first managed network device an HTTP request message
7 from the browser to obtain the current value of the MIB variable from the first
8 managed network device to which the MIB variable value pertains;
9 means for receiving the current value of the MIB variable from the MIB of the first
10 managed network device to which the MIB variable value pertains; and
11 means for communicating the current value of the MIB variable from the first
12 managed network device to which the MIB variable value pertains to the
13 browser using an HTTP reply message.

1 32. (Currently amended) The system of claim 31, further comprising:

2 means for creating and storing a MIB object tree in a memory of the first managed
3 network device;
4 means for creating an electronic document that contains a representation of one or
5 more MIB variables of the MIB object tree;
6 means for communicating the electronic document to the Web browser.

1 33. (Currently amended) The system of claim 31, wherein the means for receiving the
2 current value of the MIB variable from the MIB of the first managed network device
3 includes
4 means for creating and storing a MIB object tree in a memory of the first managed
5 network device;
6 means for obtaining the MIB variable from the MIB object tree in the memory of the
7 first managed network device.

1 34. (Currently amended) The system of claim 31, further comprising:

2 means for creating and storing a MIB object tree in a memory of the first managed
3 network device;

4 means for creating an electronic document that contains a representation of one or
5 more MIB variables of the MIB object tree;
6 means for receiving a user selection of one of the MIB variables based on the
7 electronic document;
8 wherein the means for receiving the current value of the MIB variable from the MIB
9 of the first managed network device includes means for obtaining the MIB
10 variable that is identified in the user selection from the MIB object tree in the
11 memory of the first managed network device.

35. (Currently amended) The system of claim 31, further comprising:
means for receiving the HTTP request message to obtain the current value of the MIB
variable at an HTTP-SNMP interface;
means for creating an SNMP query that requests a current value of the MIB variable
based on the HTTP request message; and
means for communicating the SNMP query to an SNMP daemon of the first managed
network device.

36. (Currently amended) The system of claim 31, further comprising:
means for communicating the current value of the MIB variable to the HTTP-SNMP
interface;
means for creating and storing an HTML page that contains the current value of the
MIB variable; and
means for sending the HTML page to an HTTP daemon of the first managed network
device.

37. (Previously presented) The system of claim 31, further comprising:

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2 means for creating and storing an executable software element in association with the
3 Web browser, wherein the executable software element is configured for
4 packaging an SNMP query into the request from the Web browser.

1 38. (Previously presented) The system of claim 31, wherein the means for receiving a
2 request from the Web browser to obtain the current value of the MIB variable
3 includes means for unpackaging an SNMP query that is packaged in the request from
4 the Web browser to identify the MIB variable.

1 39. (Currently amended) The system of claim 38, further comprising means for sending
2 the SNMP query to an SNMP daemon of the first managed network device.

1 40. (Previously presented) The system of claim 38, wherein the means for returning the
2 current value of the MIB variable to the Web browser includes means for repackaging
3 the current value of the MIB variable into an HTTP reply message.